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A TABLE TO FACILITATE THE DETERMI-
NATION OF THE MEXICAN SCALE-INSECTS
OF THE GENUS ASPIDIOTUS
(*SENS. LATISS.*)

T. D. A. COCKERELL.

Of all the Coccidæ injurious to cultivated plants, none are more easily carried to new countries, or more likely to cause trouble, than the species of *Aspidiotus*, *sens. latiss* (including *Chrysomphalus*, etc.). Some years ago I prepared for my own use a table of the Mexican forms of this group which were known to be or likely to prove of economic importance, using only characters which could be determined with a hand lens. This table is now presented with the hope that it will be useful to those who have to deal with injurious Coccidæ. The determination from the scale should of course always be confirmed by reference to a detailed account of the insect; but in the majority of cases, at least, the indications of the table will be found correct.

- | | |
|--|--------------------------|
| ♀ scale elongated | 1. |
| ♀ scale circular or subcircular | 2. |
| 1. ♀ scale linear, $2\frac{1}{2}$ mm. long, $\frac{2}{3}$ mm. broad. (on mango, Frontera) | |
| <i>longissimus</i> Ckll. | |
| ♀ scale much broader (on cactus, Frontera) | <i>bowreyi</i> Ckll. |
| 2. ♀ scale minute, less than 1 mm. diam., black or very dark brown or gray | 3. |
| ♀ scale ordinary | 4. |
| 3. ♀ scale very convex, exuviae covered, marked by a ring (on various plants) | <i>personatus</i> Comst. |
| ♀ scale broad pyriform, first skin exposed (on mesquite, Hermosillo) | |
| <i>prospidis</i> Ckll. | |
| 4. Scale dark with orange or copper-red exuviae | 5. |
| Scale white or light colored, with darker exuviae | 8. |
| Scale blackish or brown, with concolorous or darker exuviae | 14. |
| Scale pale or reddish, with concolorous exuviae | 19. |
| 5. Exuviae lateral, at one end of the oval scale; scale black with more or less grayish and whitish concentric strigation; exuviae deep orange (Cuautla) | |
| <i>dentilobis</i> Ckll. | |

- Exuviae central or nearly so 6.
6. Scale hardly $1\frac{1}{2}$ mm. diam., exuviae deep reddish (on oak, Amecameca)
ancylus Putnam.
- Scale 2 mm. or over in diameter 7.
7. Scale slightly raised, the exuviae coppery, nipple-like (on many plants)
aonidium (L.)
- Scale very flat, exuviae flat, not nipple-like, large, pale orange (on *Citrus*,
etc.) *scutiformis* Ckll.
8. Exuviae light yellow or orange 9.
- Exuviae at least partly brown or black 10.
9. Exuviae covered (Coahuila) *townsendi* Ckll.
- Exuviae exposed (on various plants) . . . *hederæ* var. *nerii*, Bouché.
10. First skin black or dark brown, second orange (Salina Cruz.)
tricolor Ckll.
- The exuviae practically all of one color 11.
11. Small, about 1 mm. diam., exuviae covered, only conspicuous when
rubbed, then shining dark brown or black (on *Yucca*, Coahuila)
yuccæ Ckll.
- Larger, exuviae conspicuous without rubbing 12.
12. Scale convex (on various plants) *acuminatus* Targ.
- Scale flat 13.
13. Scale very dark brown, covered with a chalky-white secretion (on
orange, Cuernavaca) *albopictus* Ckll.
- Scale grayish, border more or less whitish (on orange, Linares)
albopictus var. *leonis* Twns. & Ckll.
14. Exuviae not conspicuous 15.
- Exuviae black or very dark. conspicuous 17.
15. Scale light brown (Frontera) *jatrophae* Twns. & Ckll.
- Scale very dark 16.
16. Scale convex, dark gray (on mimosa, Tampico) . . . *minosæ* Comst.
- Scale flat, dark brown *perseæ* Comst.
17. Scale covered by the epidermis of the tree, the shining black exuviae
alone exposed (Orizaba) *calurus* Ckll.
- Scale exposed 18.
18. Scales 3 mm. diam. (San Luis Potosi) *nigropunctatus* Ckll.
- Scales 1 to $1\frac{1}{2}$ mm. diam. (on *Agave*, Toluca) . . *agavis*, Twns. & Ckll.
19. Scale rather convex, exuviae nearly marginal (on grape-vine) *crawii*, Ckll.
- Scale flat or flattish, exuviae not nearly marginal 20.
20. Scale light brown, exuviae not marked by a dot and ring (Tehuantepec
City) *reniformis*, Ckll.
- Exuviae marked by a dot and ring 21.
21. Scale light reddish brown (on various plants) . . . *dictyospermi*, Morg.
- Scale darker (on *Citrus*, Oaxaca) *koebelæi*, Twns. & Ckll.